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| 5825352 | 61 |
| 5889236 | 58 |
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PLUS Search Results for S/N 09820747, Searched June 14, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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09820747_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 09820747 on June 14, 2004

Original Classifications

| | |
|----|-----------|
| 10 | 178/18.06 |
| 10 | 345/173 |
| 4 | 178/18.01 |
| 4 | 345/157 |
| 4 | 345/163 |
| 4 | 345/174 |
| 2 | 178/18.03 |
| 2 | 341/33 |
| 2 | 341/34 |
| 2 | 345/168 |

Cross-Reference Classifications

| | |
|----|-----------|
| 15 | 345/173 |
| 10 | 345/157 |
| 9 | 178/18.01 |
| 8 | 178/18.03 |
| 8 | 341/33 |
| 8 | 345/174 |
| 7 | 345/156 |
| 6 | 178/18.06 |
| 3 | 178/19.01 |
| 3 | 345/159 |
| 3 | 345/179 |
| 2 | 178/18.04 |
| 2 | 178/18.07 |
| 2 | 178/19.04 |
| 2 | 345/158 |
| 2 | 345/177 |
| 2 | 345/856 |

Combined Classifications

| | |
|----|-----------|
| 25 | 345/173 |
| 16 | 178/18.06 |
| 14 | 345/157 |
| 13 | 178/18.01 |
| 12 | 345/174 |
| 10 | 178/18.03 |
| 10 | 341/33 |
| 8 | 345/156 |
| 5 | 345/163 |
| 3 | 178/19.01 |
| 3 | 341/34 |
| 3 | 345/159 |

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3 345/168
3 345/179
2 178/18.04
2 178/18.07
2 178/19.04
2 341/20
2 345/104
2 345/158
2 345/177
2 345/856
2 361/683

09820747_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09820747 on June 14, 2004

| | | |
|----|-------------|--|
| 25 | 345/173 | (10 OR, 15 XR) |
| | Class 345 : | COMPUTER GRAPHICS PROCESSING, OPERATOR INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY SYSTEMS |
| | 345/156 | DISPLAY PERIPHERAL INTERFACE INPUT DEVICE |
| | 345/173 | .Touch panel |
| 16 | 178/18.06 | (10 OR, 6 XR) |
| | Class 178 : | TELEGRAPHY SYSTEMS |
| | 178/2R | |
| | 178/18.01 | .Position coordinate determination for writing (e.g., writing digitizer pad, stylus, or circuitry) |
| | 178/18.03 | ..Writing digitizer pad |
| | 178/18.06 | ...Capacitive |
| 14 | 345/157 | (4 OR, 10 XR) |
| | Class 345 : | COMPUTER GRAPHICS PROCESSING, OPERATOR INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY SYSTEMS |
| | 345/156 | DISPLAY PERIPHERAL INTERFACE INPUT DEVICE |
| | 345/157 | .Cursor mark position control device |
| 13 | 178/18.01 | (4 OR, 9 XR) |
| | Class 178 : | TELEGRAPHY SYSTEMS |
| | 178/2R | |
| | 178/18.01 | .Position coordinate determination for writing (e.g., writing digitizer pad, stylus, or ci rcuitry) |
| 12 | 345/174 | (4 OR, 8 XR) |
| | Class 345 : | COMPUTER GRAPHICS PROCESSING, OPERATOR INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY SYSTEMS |
| | 345/156 | DISPLAY PERIPHERAL INTERFACE INPUT DEVICE |
| | 345/173 | .Touch panel |
| | 345/174 | ..Including impedance detection |
| 10 | 178/18.03 | (2 OR, 8 XR) |
| | Class 178 : | TELEGRAPHY |

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178/2R SYSTEMS

178/18.01 .Position coordinate determination for writing
(e.g., writing digitizer pad, stylus, or c
ircuitry)

178/18.03 ..Writing digitizer pad

10 341/33 (2 OR, 8 XR)

Class 341 : CODED DATA GENERATION OR CONVERSION

341/20 BODILY ACTUATED CODE GENERATOR

341/22 .Including keyboard or keypad

341/33 ..Capacitive actuation

8 345/156 (1 OR, 7 XR)

Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY

345/156 SYSTEMS
DISPLAY PERIPHERAL INTERFACE INPUT DEVICE

5 345/163 (4 OR, 1 XR)

Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY

345/156 SYSTEMS
DISPLAY PERIPHERAL INTERFACE INPUT DEVICE

345/157 .Cursor mark position control device

345/163 ..Mouse

3 178/19.01 (0 OR, 3 XR)

Class 178 : TELEGRAPHY

178/2R SYSTEMS

178/18.01 .Position coordinate determination for writing
(e.g., writing digitizer pad, stylus, or c
ircuitry)

178/19.01 ..Writing digitizer stylus

3 341/34 (2 OR, 1 XR)

Class 341 : CODED DATA GENERATION OR CONVERSION

341/20 BODILY ACTUATED CODE GENERATOR

341/22 .Including keyboard or keypad

341/34 ..Pressure sensitive actuation

3 345/159 (0 OR, 3 XR)

Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY

345/156 SYSTEMS
DISPLAY PERIPHERAL INTERFACE INPUT DEVICE

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| | | | |
|---------|-----------|--------------|--|
| | 345/157 | | .Cursor mark position control device |
| | 345/159 | | ..Having variable cursor speed |
| 3 | 345/168 | (2 OR, 1 XR) | |
| | Class | 345 : | COMPUTER GRAPHICS PROCESSING, OPERATOR INTERFACE PROCESSING, AND SELECTIVE VISUAL SYSTEMS |
| DISPLAY | | | |
| | 345/156 | | DISPLAY PERIPHERAL INTERFACE INPUT DEVICE |
| | 345/168 | | .Including keyboard |
| 3 | 345/179 | (0 OR, 3 XR) | |
| | Class | 345 : | COMPUTER GRAPHICS PROCESSING, OPERATOR INTERFACE PROCESSING, AND SELECTIVE VISUAL SYSTEMS |
| DISPLAY | | | |
| | 345/156 | | DISPLAY PERIPHERAL INTERFACE INPUT DEVICE |
| | 345/179 | | .Stylus |
| 2 | 178/18.04 | (0 OR, 2 XR) | |
| | Class | 178 : | TELEGRAPHY |
| | 178/2R | | SYSTEMS |
| | 178/18.01 | | .Position coordinate determination for writing (e.g., writing digitizer pad, stylus, or circuitry) |
| | 178/18.03 | | ..Writing digitizer pad |
| | 178/18.04 | | ...Acoustical (e.g., vibration, ultrasonic, etc.) |
| 2 | 178/18.07 | (0 OR, 2 XR) | |
| | Class | 178 : | TELEGRAPHY |
| | 178/2R | | SYSTEMS |
| | 178/18.01 | | .Position coordinate determination for writing (e.g., writing digitizer pad, stylus, or circuitry) |
| | 178/18.03 | | ..Writing digitizer pad |
| | 178/18.07 | | ...Inductive |
| 2 | 178/19.04 | (0 OR, 2 XR) | |
| | Class | 178 : | TELEGRAPHY |
| | 178/2R | | SYSTEMS |
| | 178/18.01 | | .Position coordinate determination for writing (e.g., writing digitizer pad, stylus, or circuitry) |
| | 178/19.01 | | ..Writing digitizer stylus |
| | 178/19.04 | | ...Pressure stylus |
| 2 | 341/20 | (1 OR, 1 XR) | |

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| | | | |
|---------|---------|--------------|--|
| Class | 341 | : | CODING DATA GENERATION OR CONVERSION |
| 341/20 | | | BODILY ACTUATED CODE GENERATOR |
| 2 | 345/104 | (1 OR, 1 XR) | |
| Class | 345 | : | COMPUTER GRAPHICS PROCESSING, OPERATOR |
| | | | INTERFACE PROCESSING, AND SELECTIVE VISUAL |
| DISPLAY | | | SYSTEMS |
| | 345/30 | | PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM |
| | | | (E.G., NON-CRT) |
| | 345/55 | | .Display elements arranged in matrix (e.g., |
| | | | rows and columns) |
| | 345/84 | | ..Light-controlling display elements |
| | 345/87 | | ...Liquid crystal display elements (LCD) |
| | 345/104 | |Input/output liquid crystal display panel |
| 2 | 345/158 | (0 OR, 2 XR) | |
| Class | 345 | : | COMPUTER GRAPHICS PROCESSING, OPERATOR |
| | | | INTERFACE PROCESSING, AND SELECTIVE VISUAL |
| DISPLAY | | | SYSTEMS |
| | 345/156 | | DISPLAY PERIPHERAL INTERFACE INPUT DEVICE |
| | 345/157 | | .Cursor mark position control device |
| | 345/158 | | ..Including orientation sensors (e.g., |
| | | | infrared, ultrasonic, remotely controlled) |
| 2 | 345/177 | (0 OR, 2 XR) | |
| Class | 345 | : | COMPUTER GRAPHICS PROCESSING, OPERATOR |
| | | | INTERFACE PROCESSING, AND SELECTIVE VISUAL |
| DISPLAY | | | SYSTEMS |
| | 345/156 | | DISPLAY PERIPHERAL INTERFACE INPUT DEVICE |
| | 345/173 | | .Touch panel |
| | 345/177 | | ..Including surface acoustic detection |
| 2 | 345/856 | (0 OR, 2 XR) | |
| Class | 345 | : | COMPUTER GRAPHICS PROCESSING, OPERATOR |
| | | | INTERFACE PROCESSING, AND SELECTIVE VISUAL |
| DISPLAY | | | SYSTEMS |
| | 345/700 | | OPERATOR INTERFACE (E.G., GRAPHICAL USER |
| | | | INTERFACE) |
| | 345/764 | | .On-screen workspace or object |
| | 345/856 | | ..Cursor |
| 2 | 361/683 | (1 OR, 1 XR) | |
| Class | 361 | : | ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES |

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| | |
|---------|--|
| 361/600 | HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE ELECTRICAL COMPONENTS |
| 361/679 | .For electronic systems and devices |
| 361/683 | ..Computer related support |

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 accompanying 1
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 accordingly 1
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 allow 1
 alone 1
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 also 4
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 altemative 1
 alterations 2
 alternate 1
 alternative 1
 although 3
 always 2
 ambient 1
 an 13
 and 23
 another 7
 any 2
 apparent 2
 appended 1
 applications 2
 applied 1
 are 8
 arrangement 1
 as 15
 aspect 4
 aspects 1
 associated 1
 at 2
 attempted 1
 average 1
 axial 1
 axis 2
 back 1
 backmound 1
 balmer 3
 banner 2
 barmer 1
 be 21
 because 1

been 1
 below 1
 better 2
 beverages 1
 block 1
 board 1
 both 1
 brief 1
 buttons 1
 by 13
 calculated 1
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 called 1
 can 2
 capacitance 1
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 capacitive 3
 capacitor 1
 caused 5
 causing 1
 chart 1
 circuitry 1
 circuit 2
 circuitry 1
 claimed 1
 claims 3
 combination 2
 combinations 3
 common 2
 compared 1
 computer 2
 computers 2
 conductive 7
 conductors 13
 conjunction 1
 conjunction 1
 consideration 1
 contained 1
 continue 1
 control 1
 controlling 3
 convenient 1
 corrects 1
 corresponding 1
 counting 2
 counts 1
 count 1
 counted 2

counter 1
counting 1
counts 4
coupled 2
covers 2
ctrlrsor 1
current 1
cursor 1
def 1
defined 1
defining 1
dependent 2
descdbed 1
descdption 1
description 5
design 1
detailed 3
detecting 2
detection 1
detennine 1
determinator 3
determine 1
determining 1
device 11
devices 2
dexterity 1
diagram 2
different 2
digital 1
dimensional 2
directed 2
direction 3
discussed 1
display 1
disposed 1
dnmage 1
dragging 1
drawinas 1
drawings 4
dual 2
each 8
edge 2
effects 1
either 1
electronic 1
element 1
elements 3
eliminate 1

embodiment 6
 embodiments 4
 enors 1
 environmental 1
 errors 3
 example 2
 exemplary 9
 exnmples 1
 factors 1
 features 1
 field 1
 fig 8
 figs 2
 finger 19
 fingertip 1
 first 1
 fluduations 1
 fmger 1
 fnzstration 1
 following 2
 for 19
 foregoing 1
 form 1
 found 1
 frequencies 2
 frequency 3
 from 8
 function 1
 further 1
 generally 1
 generate 2
 generated 3
 hand 2
 hands 1
 has 2
 have 3
 having 2
 helpful 1
 her 1
 hereafter 1
 herein 3
 high 1
 his 1
 how 1
 however 2
 hum 1
 human 3
 hwention 1

hz 1
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iangtzlr 1
ib 1
ideal 1
ii 1
iidc 1
in 23
inaccurate 1
include 5
included 1
including 1
incorporate 1
independent 2
input 1
instance 2
instead 1
intended 3
interdigitated 1
interdigitating 1
interval 2
invention 15
is 20
it 2
its 2
keyboard 3
laptop 1
light 1
limitation 1
ln 1
lnvention 1
lotion 2
lt 1
ltd 6
manual 1
manufacturing 1
may 20
measured 1
measurement 1
measuring 3
mechanism 2
member 2
methods 1
metric 2
mice 1
minimized 1
mode 2
modifications 1

moditkations 1
moistness 1
more 4
moreover 1
most 1
motion 1
mouse 8
movable 1
move 1
moving 1
multiple 1
multitude 1
necessarily 1
ned 1
need 2
ng 1
nger 1
nodes 2
not 6
ntlumber 1
number 4
object 4
of 81
often 1
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on 12
one 3
optimal 2
or 20
oscillator 9
oscillators 4
other 9
others 1
over 2
own 2
pad 10
pads 1
page 6
part 2
particularly 1
personal 2
place 1
plate 1
plates 5
pointing 3
portion 1
position 14
possibilities 1

potential 1
power 1
preferably 1
preferred 3
present 8
presstlre 1
pressure 3
printed 1
problems 1
processing 1
properly 1
provide 1
providing 1
pulse 4
pulses 6
quickly 1
ratio 8
rc 1
read 2
reason 1
reducing 1
refening 1
reference 1
refers 1
regat 1
rejection 1
relates 2
relative 1
relevant 1
remove 1
requency 1
require 1
requires 1
resistor 1
respective 1
respectively 1
resulting 2
results 1
rolled 1
rom 1
same 2
schematic 3
scroll 2
scrolling 10
sense 3
sensed 1
sensitive 4
sensor 1

shape 1
shaped 2
shapes 1
sharing 1
showing 3
side 1
signals 1
similar 3
simultaneously 2
size 2
skilled 1
slder 1
slider 9
sliders 1
sllm 1
so 1
some 2
source 1
specification 1
specitkation 1
spilled 1
steps 2
still 1
subcombination 1
subcombinations 1
substantial 1
such 10
sum 2
summal 1
summary 1
surface 1
switch 1
taken 1
technology 1
temperature 1
tendency 1
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then 1
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therefore 1
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these 3
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this 2
those 1

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tinger 1
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today 1
tolerances 1
top 3
touch 21
touching 1
traces 3
trains 1
transverse 2
triangular 4
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two 12
typical 1
typing 2
upon 4
use 1
used 7
user 4
users 1
using 2
utilized 1
variations 1
various 4
variously 1
via 2
view 3
views 1
way 3
wedge 1
well 1
wention 2
wheel 1
wheels 2
when 3
which 3
who 1
will 4
witcoff 6
with 11
word 1
written 1
yet 1